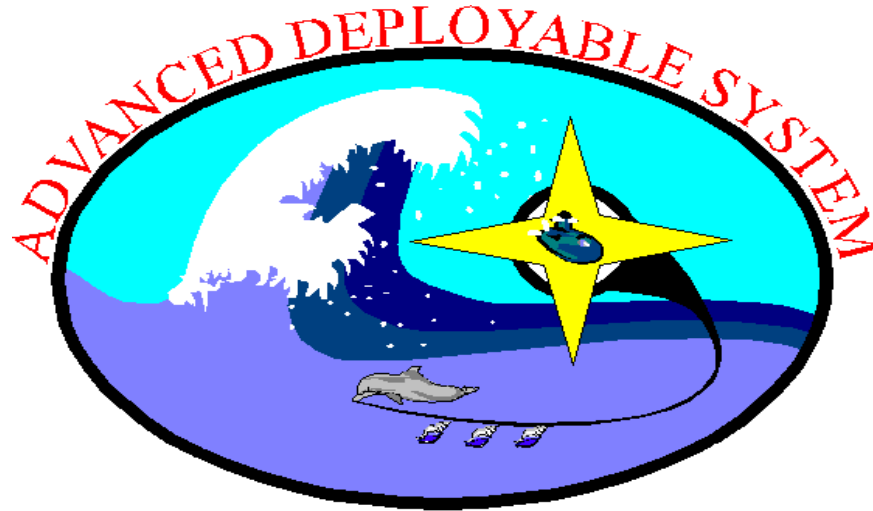


ADS as a Force Protector for Expeditionary Forces

Expeditionary Warfare Conference

30 October 2001

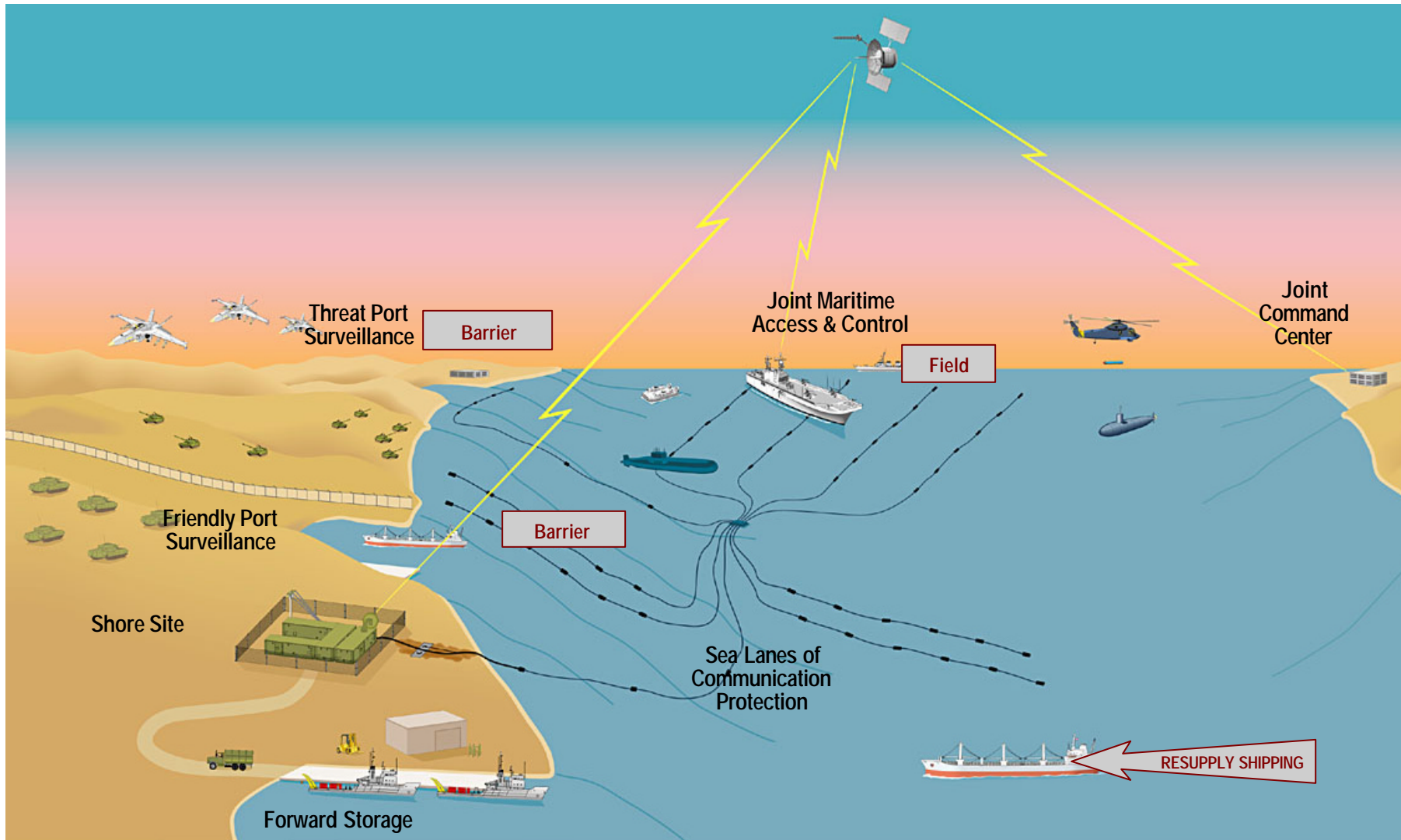


Jim Gilbert

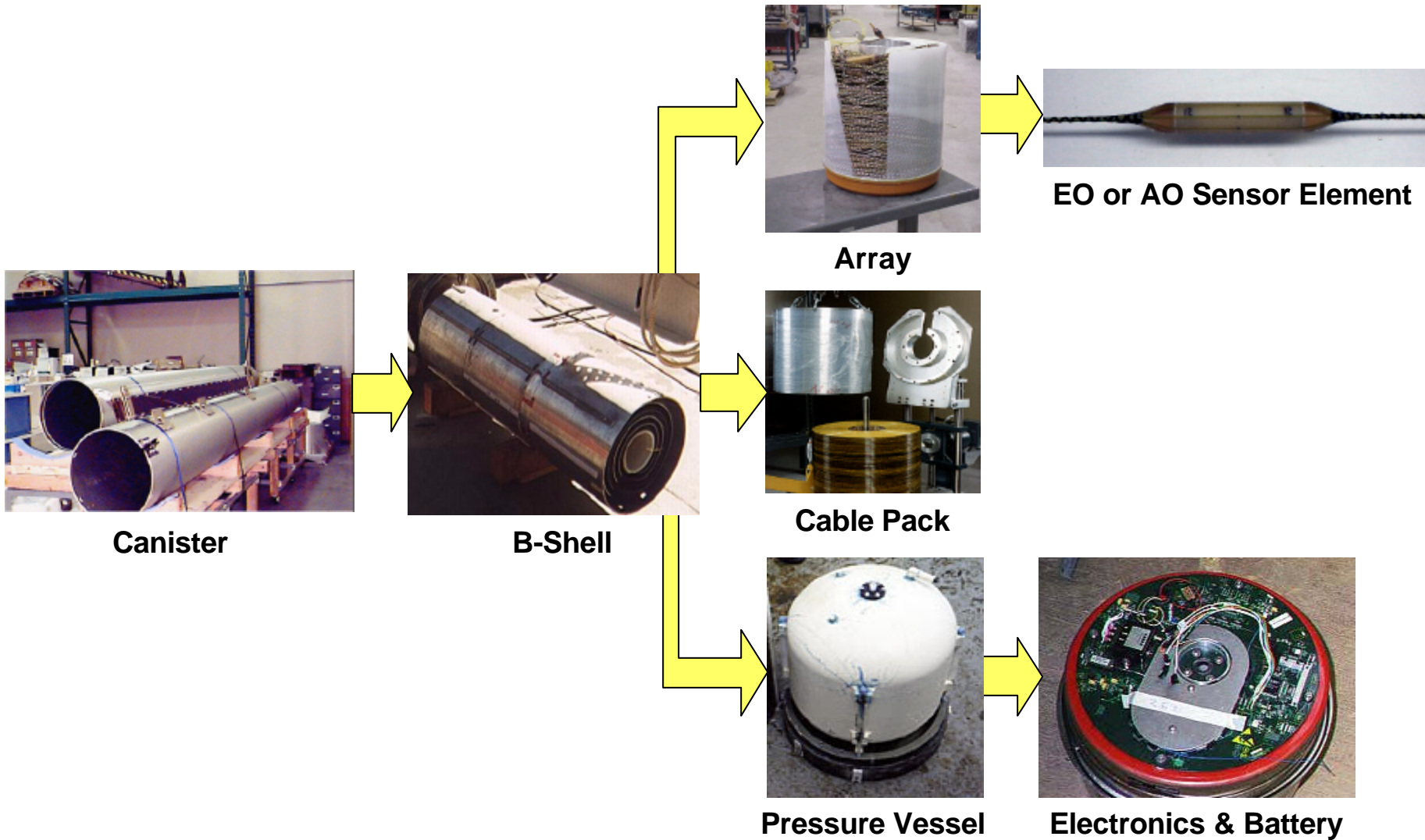
TRW Systems

(619) 542-2234 jim.gilbert@trw.com

ADS Overview

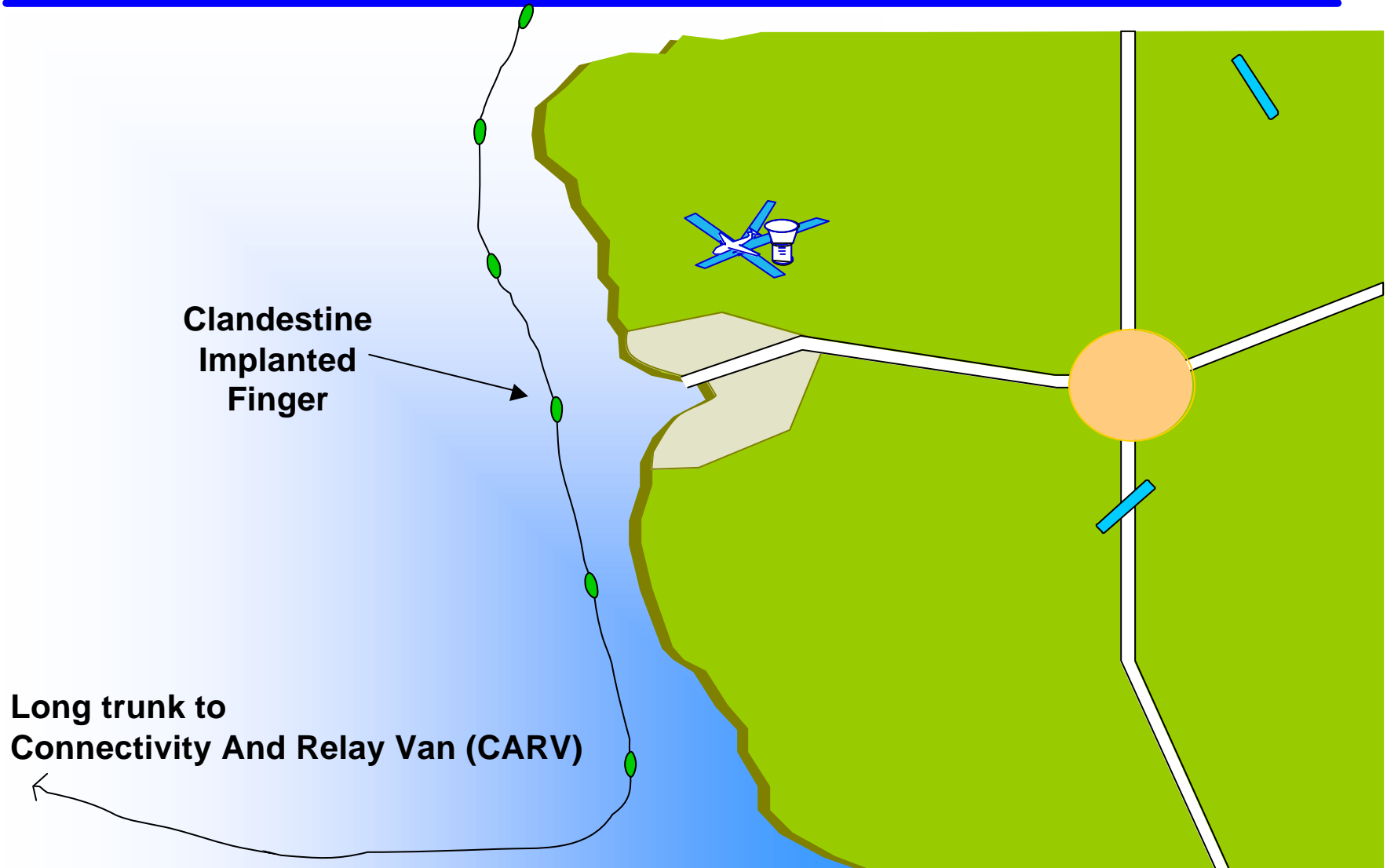


ADS Underwater Segment



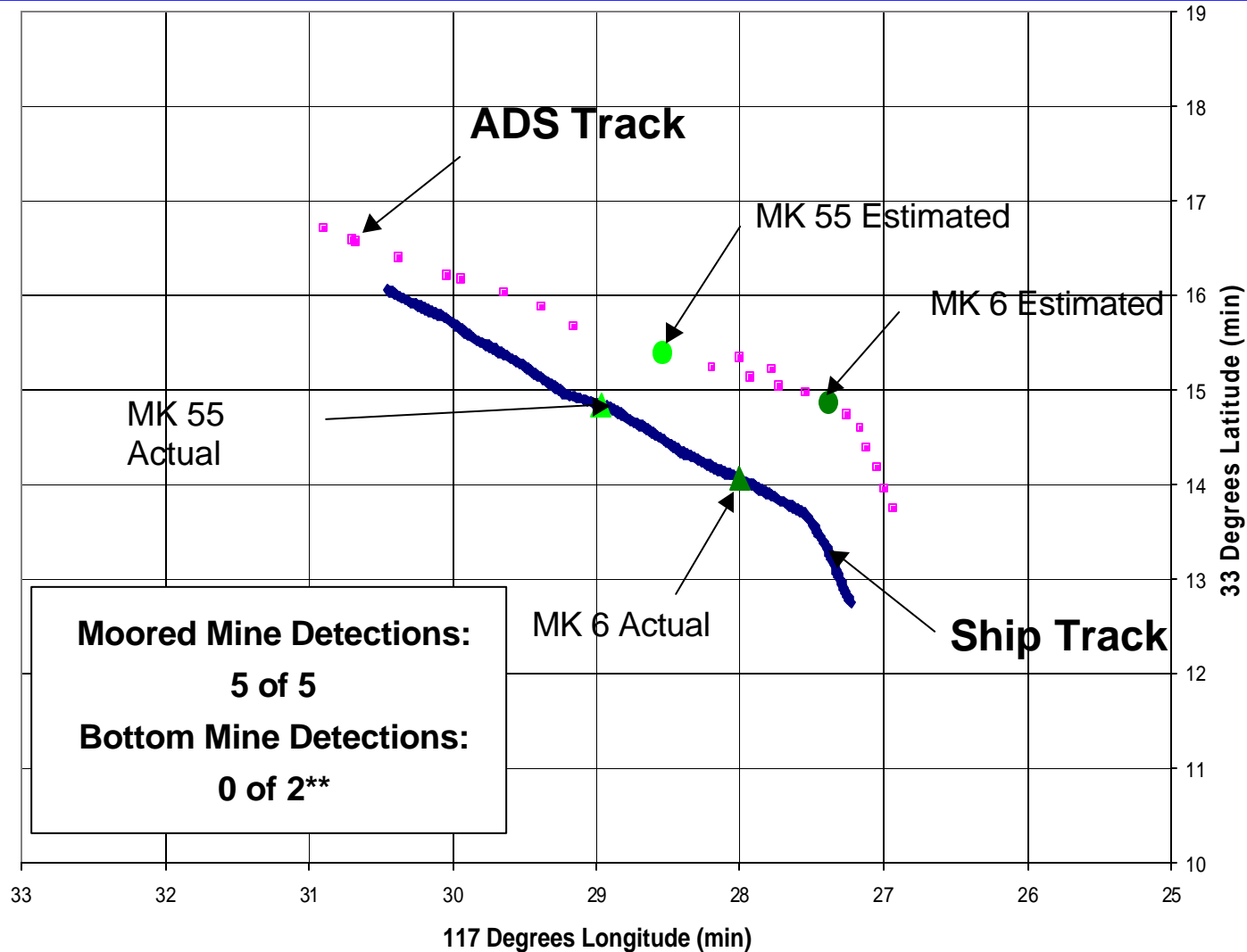


Pre-Operation Mining Surveillance



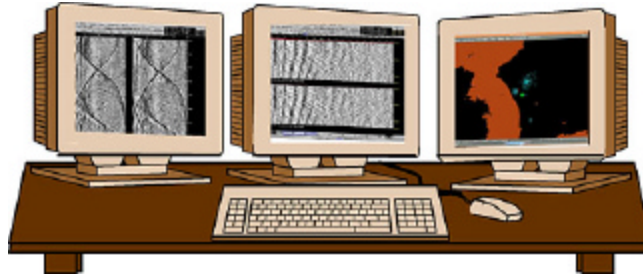


FET MINEX



**** Real Time; post processing indicates possibility that sensor did detect event.**

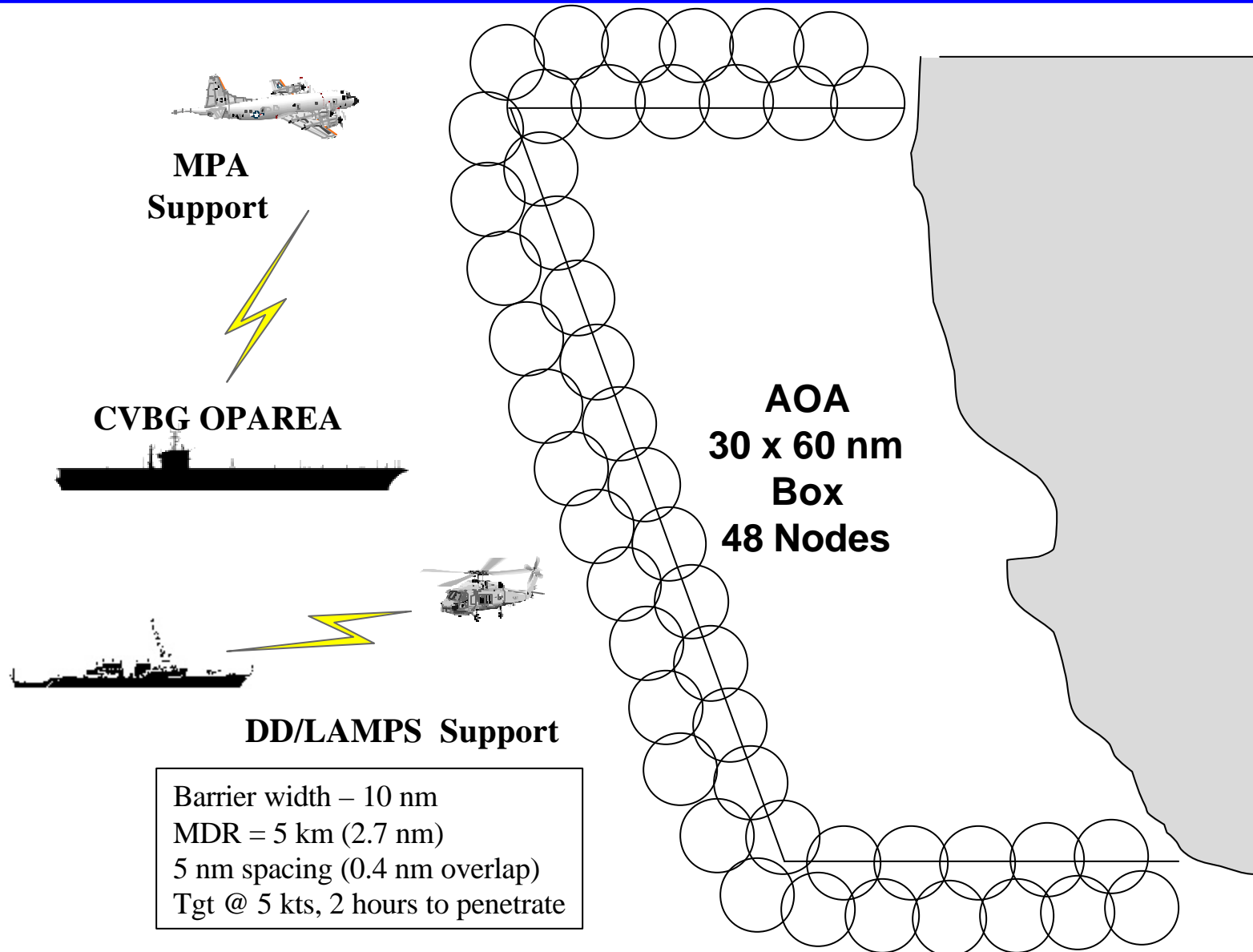
Complete Maritime View



I & W  Force Protection



Notional Force Protection Laydown





FET (Feb-May 99) Results

- **Three major fleet exercises**
 - **7 cue-to-kills**
 - **Accounted for all sub kills in two exercises**
- **Exceeded Design Ao and Pd / Lowered timelate reporting significantly**
- **Mine laying detection**
- **Planes, trains, etc.**

“... love the system and the utility is perfect just for an environment like this”

CAPT LEFEVER (COMDESRON 21)

“... ADS was significant portion of first kill on Dolphin this afternoon with first contact info and positive identification criteria”

RADM LAFLEUR (COMCRUDESGRU 1)

“... cue to kills number for Kernal Blitz is misleading. The kill number would have been much higher if more tactical prosecution assets were available.”

RADM SMITH (COMPHIBGRU 3)



Challenges

- **Survivability**
- **Understanding Tactical Employment Desires**
 - **Timeline**
 - **Processing Ashore / Afloat**
 - **People vs. Relay**
 - **C4I**